

Abstract

Cooling concept for turbo machines

The invention relates to a method and a device for cooling thermally stressed regions in a turbo machine which has a live-steam feed line (9), an inflow region (17), a housing (2) and an exhaust-steam region (7), a flow medium flowing through the turbo machine (1) and leaving in the exhaust-steam region (7) during operation, part of the flow medium from the live-steam feed line (9) being passed to the exhaust-steam region (7) and cooled by means of a heat exchanger (8) before entry into the turbo machine (1) and entering the turbo machine (1) via the inflow region (17), thermally stressed regions that are located in the inflow region (17) being cooled by the flow medium that has been cooled in this way.

FIGURE 1